

PROPERTIES OF GRAPHITE GRADE 2124

GENERAL

Isomolded, very fine grain, high strength. high density, isotropic graphite. Excellent resistance to thermal shock and oxidation. Maximum service temperature in inert atmosphere 5,000 F (2,760 C). Standard size 12" x 24" x 72" Call factory for special sizes.

TYPICAL

APPLICATIONS

High performance graphite for general refractory applications such as; Continuous Casting, sintering and furnace resistors and components.

PROPERTIES

Typical Values

English Units

SI Units

Bulk Density	114.6 lbs/ft ³	1.84 gm/cm ³
Grain Size	0.0005 inch	13 μ m
Specific Resistance	0.00045 ohm-in	1,140 μ ohm-cm
Flexural Strength	8,400 psi	58 MPa
Tensile Strength	5,300 psi	36 MPa
Compressive Strength	18,000 psi	124 MPa
Hardness - Rockwell H	80	80
Coefficient of Thermal Expansion (400 to 500°C)	3.1 x 10E-6/°F	5.5 x 10E-6/°C
Porosity	8%	8%
Thermal Conductivity	65 Btu-Ft/Ft ² Hr°F	112 W/m°C
Modulus of Elasticity	1.65 x 10E6 psi	11.4 GPa
Ash	350 ppm	350 ppm

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